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(54) **Method and apparatus for the regeneration of acid in the manufacture of regenerated cellulose.**

(57) A method of producing regenerated cellulose comprising regenerating cellulose by acidifying an alkaline cellulose solution, passing the regenerated cellulose through an acid bath 1, 2, 3 to remove residual alkali therefrom, washing the regenerated cellulose with a countercurrent of washing water 8, passing liquid from the acid bath through the anode compartment of an electrolytic cell 10, and the washing water through the cathode compartment of the said cell, the said cell being provided with an ion-selective membrane cell 11 divider to define the said anode and cathode compartments, and electrolyzing the solution in the cell to raise the acidity of the anolyte and lower that of the catholyte to produce a less acidic aqueous effluent.

**EP 0 032 007 A3**

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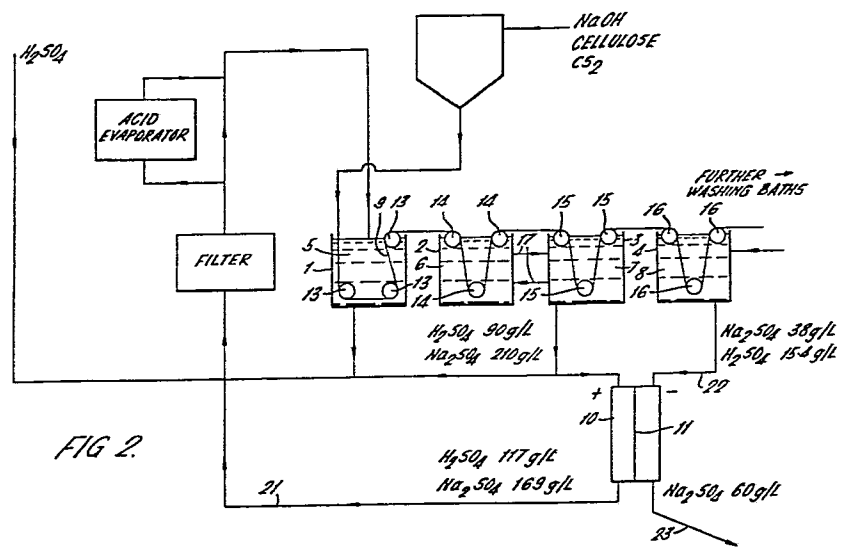


FIG 2.



| DOCUMENTS CONSIDERED TO BE RELEVANT                                                                   |                                                                                                                                                                                                                                                                                           |                                  | CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Category                                                                                              | Citation of document with indication, where appropriate, of relevant passages                                                                                                                                                                                                             | Relevant to claim                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                       | <p><u>GB - A - 215 851</u> (CARLO MORIONDI)</p> <p>* Pages 3,4 *</p> <p>--</p> <p><u>FR - A - 893 298</u> (PHRIX-ARBEITSGEMEINSCHAFT)</p> <p>* Claims *</p> <p>--</p> <p><u>FR - A - 1 015 558</u> (HEINRICH JOSEF HAMPEL)</p> <p>* Page 4, right-hand column; summary *</p> <p>-----</p> | <p>1,9</p> <p>1,9</p> <p>1,9</p> | <p>C 08 B 16/00<br/>D 01 F 13/02</p> <p>TECHNICAL FIELDS SEARCHED (Int. Cl. 3)</p> <p>C 08 B 16/00<br/>D 01 F 13/02</p> <p>CATEGORY OF CITED DOCUMENTS</p> <p>X: particularly relevant<br/>A: technological background<br/>O: non-written disclosure<br/>P: intermediate document<br/>T: theory or principle underlying the invention<br/>E: conflicting application<br/>D: document cited in the application<br/>L: citation for other reasons</p> <p>&amp; member of the same patent family.<br/>corresponding document</p> |
| <p><input checked="" type="checkbox"/> The present search report has been drawn up for all claims</p> |                                                                                                                                                                                                                                                                                           |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Place of search                                                                                       |                                                                                                                                                                                                                                                                                           | Date of completion of the search | Examiner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| The Hague                                                                                             |                                                                                                                                                                                                                                                                                           | 13-08-1981                       | LENSEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |